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Glue Metering in a Paste Unit

Patent Claims

1. Paste unit for a bottom guide device for star seal bottom bags, which are formed from tube sections, for gluing of bottom warps or star seal bottom bags, and has at least the following characteristics:
 - a glue reservoir (4), and/or a glue source
 - a metering roller (3), which is connected with the glue reservoir (4)
 - a glue application roller (2), which may be connected to the glue reservoir (4) or the glue source,
 - a making roller (1), which is connected to the glue application roller (2), and which transfers glue (7) from this roller (2) to the bottom warps or the star seal bottoms,
 - whereby drive means are assigned to the above listed rollers (1, 2, 3),**characterized in that**
the circumference speed of the glue application roller (2) and of the making roller (1) can be adjusted independently of one another.
2. Paste unit according to claim 1,
characterized in that

the circumference speed of the metering roller (3) can also be adjusted independently of the other two rollers (1, 2).

3. Paste unit according to claim 2,
characterized in that
the direction of rotation (C) the metering roller (3) can be reversed.
4. Paste unit according to one of the previous claims,
characterized in that
at least one of the previously stated rollers (1, 2, 3) has its own drive motor (6).
5. Paste unit according to one of the previous claims,
characterized in that
at least one of the previously stated rollers (1, 2, 3) has its own drive motor (6), which is supplied with current by a power electronic power controller – such as a frequency converter.
6. Paste unit according to one of the previous claims,
characterized in that
 - the drive means (6) are activated by a control device,
 - which has a data processor, which, depending on the
 - glue application amounts, or
 - changes of glue application amountsdesired by the machine operator, adjusts the circumference speed of the rollers (1, 2, 3) involved in the glue transport, and aligns them to one another.
7. Paste unit according to claim 6,
characterized in that

the control device bases the adjustment and alignment of the circumference speed of the rollers (1, 2, 3) on the circumference speed of the making roller (1).

8. Method for controlling the glue amount for a paste unit of a bottom guide device for star seal bottom bags, whereby the paste unit glues bottom warps or star seal bottoms, and has at least the following characteristics:
- one glue reservoir (4), and/or a glue source
 - a metering roller (3) that is connected to the glue reservoir (4)
 - a glue application roller (2), which may be connected to the glue reservoir (4) or the glue source,
 - a making roller (1), which is connected to the glue application roller (2), and which transfers glue from this roller (2) to the bottom warps or to the star seal bottoms
 - whereby drive means (6) are assigned to the above stated rollers (1, 2, 3),
- characterized in that**
- the ratio of the circumference speeds of the glue application roller (2) and the making roller (3) is varied for controlling the glue application amount.